

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"5824
Type: 5800-HSC
Synch speed: 1200 rpm
Curve: 240606AM
Specific Speeds:
Dimensions:
Speed: 1185 rpm
Dia: 18 in
Impeller: D6D1AM
Ns: 1080
Nss: 9832
Suction: 8 in
Discharge: 6 in

Pump Limits:

Temperature: 160 °F
Pressure: 175 psi g
Sphere size: 0.88 in
Power: --- hp
Eye area: --- in²

Search Criteria:

Flow: --- US gpm
Head: --- ft

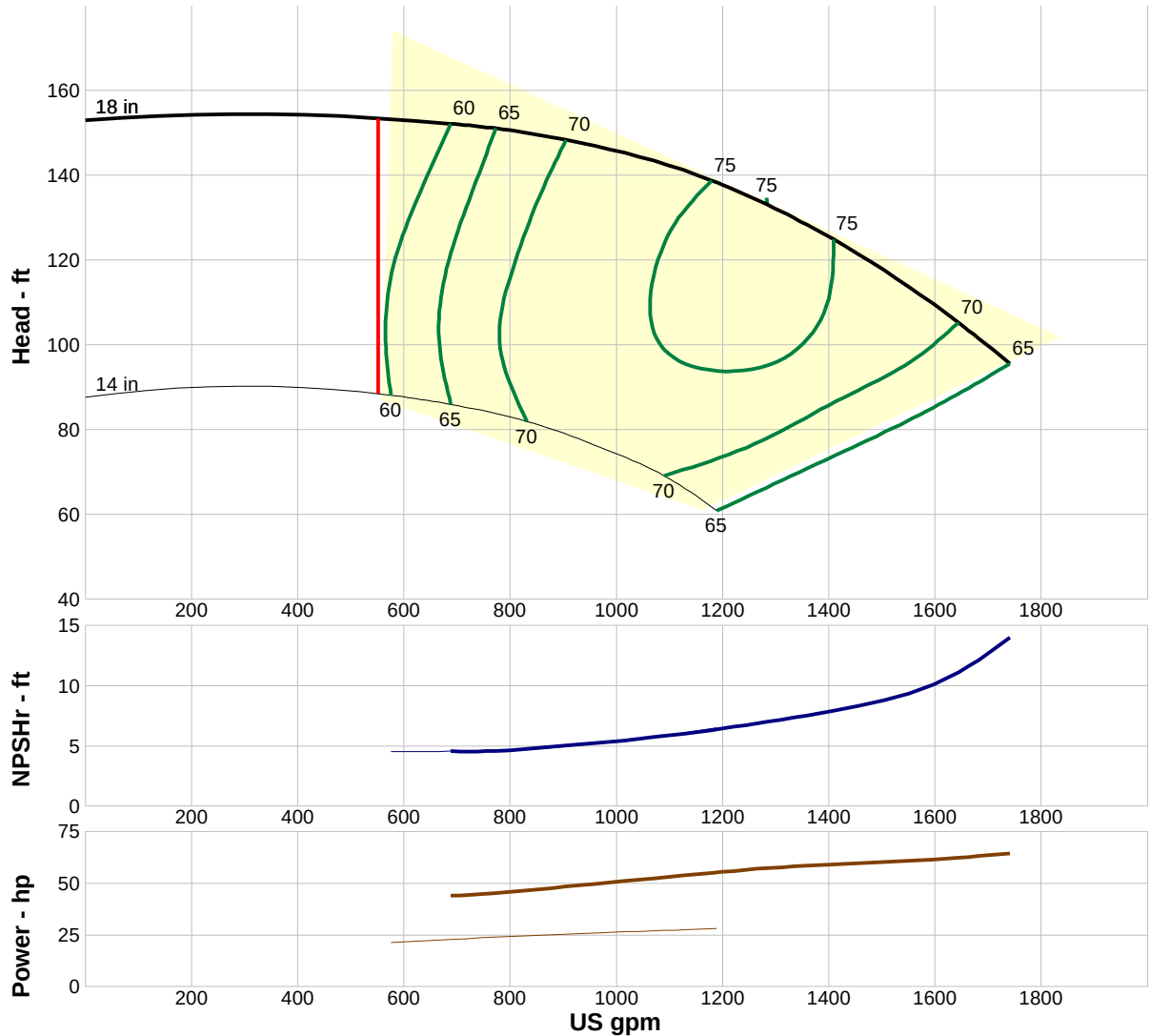
Fluid:

Water
Density: 62.25 lb/ft³
Viscosity: 1.105 cP
NPSHa: --- ft
Temperature: 60 °F
Vapor pressure: 0.2563 psi a
Atm pressure: 14.7 psi a

Motor:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 75 hp
Speed: 1200
Frame: 405T

---- Data Point ----	
Flow:	1283 US gpm
Head:	133 ft
Eff:	75%
Power:	57.4 hp
NPSHr:	7.02 ft
---- Design Curve ----	
Shutoff head:	153 ft
Shutoff dP:	66.1 psi
Min flow:	550 US gpm
BEP:	75% @ 1283 US gpm
NOL power:	64.6 hp @ 1740 US gpm
-- Max Curve --	
Max power:	64.6 hp @ 1740 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1670	1185	103	69	63	11.9
1392	1185	126	75	59	7.8
1114	1185	141	74	53.5	6.02
835	1185	150	67	46.8	4.79
557	1185	152	52	42	4.51